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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/410,044	10/01/1999	ROLAND BODIN	040020-149	6306
27045	7590	03/01/2005	EXAMINER	
ERICSSON INC. 6300 LEGACY DRIVE M/S EVR C11 PLANO, TX 75024			SEAL, JAMES	
			ART UNIT	PAPER NUMBER
			2135	

DATE MAILED: 03/01/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/410,044

Applicant(s)

BODIN, ROLAND

Examiner

James Seal

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 02 May 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 5 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 5 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Other: _____

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DETAILED ACTION

1. Your request for an RCE has been approved and an Action follows
2. IDS has been reviewed by the examiner and a signed copy is returned with action.
3. Claim 5 is pending.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Billstrom US 5590133 and further in view of Jones 5412730.

As per claim 5 applicant recites encrypted information transmitted between a fixed network and a mobile station use TDMA is disclosed by Billstrom see summary Column 4, lines 5-36, Column 6 lines 34-67 Column 7 lines 1-27. Billstrom also recognizes the need for encryption/decryption (Column 8 lines 17-21), but is silent on the form of security this might provide or how it will accomplish this.

Jones discloses figure 4 and column 8 encryption for a secure network Column 9 lines 64-67 and Column 10, line 1-5 with encryptions between any terminal (phone) see column 5, line 2-3 and receiving stations in the network (Column 9, lines 54-67). Note Column 9, lines 1- 4 discloses that the function unit in the basic system shown in figure

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1. Encryption takes place using a first pseudo-random number generator obtaining their seed from key memory hence a key (see column 9, lines 52-53 and a block counter or ordinal number the frame where the block in Jones plays the role of the frame in Billstrom. Forming a modified pseudo-random sequence from the pseudo random sequence above depend on the ordinal number of the time slot within which information block is encrypted see figure 4 38 and 21 23. Performing a logic operation between said modified pseudo-random sequence and each block of non-encrypted information. From Figure 1 we can see that the modified pseudo random sequence is combined in the encryptor and original data source (non-encrypted information) where the encryptor performs such logic operations as XOR on the two. One of ordinary skill in the art at the time the invention was made would have been motivated to combine the teachings of Billstrom a TDMA cellular system with those of Jones which provides high grade using a two fold PRN generator for a digital telephone network because Billstrom provides standard ordinary encryption/decryption while Jones use of two pseudo-random number generators to strengthen the encryption. Claim 5 is rejected,

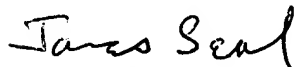
Any inquiry concerning this communication or earlier communications from the examiner should be directed to James Seal whose telephone number is 571 272 3855. The examiner can normally be reached on M-F, 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Vu can be reached on 571 272 3859.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

James Seal
Examiner AU2135

A handwritten signature in cursive script that reads "James Seal".

25 Feb 2005